Seemingly small, but big in reality

Shuttle K-Series Barebone K48

Attractive, quiet, a most appealing price and equipped with an integrated slot designed for 5.25" drives - all of which enables the K-Series Barebone K48 to complement Shuttle's growing model range for simple applications such as the internet and MS-Office programs. Large amounts of content are increasingly being sourced from the network - so the Barebone K48 comes with Gigabit-LAN and is therefore always connected at high-speed. A WLAN option is also possible. The DVI/VGA connection enables concurrent operation at two monitors. The changeable front panel means that it can be individually designed in an instant. The Shuttle K-Series Barebone K48 is in many respects an ideal choice for simple applications, whether for working or for digital media playback.

Images for illustration purposes only.

Feature Highlight

K chassis	• Black chassis with aluminum cover • Dimensions: 29.5 x 20 x 18.5 cm (L/W/H) • Bays: 2x 3.5“ (internal) and 1x 5.25” (ext.) • MyKover: customizable front panel design
Chipset	• Intel 945GC + ICH7
Graphics	• Integrated GMA950 graphics, max. 224MB • Video out: digital DVI and analog D-Sub Supports Dual Monitor operating
CPU	• Socket 775 • Core 2 Duo E7xxx/E4xxx, Pentium Dual-Core 2xxx and Celeron 4xx (max. 65W) • Supports 1066/800/533 MHz FSB • For use with Intel standard cooling fan (not included). Please purchase an Intel boxed processor.
Memory	• Supports 2x DDR2-533/667 • Supports up to 2GB (2x 1GB)
Drive connectors	• 2x SATA II (3 Gbit/s) • 1x IDE ATA 100
Other connectors	• 5.1 HD audio • USB 2.0 (4x rear, 4x onboard) • Gigabit LAN • Optional WLAN adapter (PN20)
Power supply	• 100 Watt Flex-ATX power supply
Application	• Home, Business

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Shuttle K-Series Barebone K48 – Special Product Features

Supports Intel Core 2 Duo Processors

The Shuttle K-Series Barebone K48 is designed to support several Intel Desktop processors with 65nm and 45nm process technology up to the powerful Core 2 Duo E7xxx series (max. 1066MHz FSB and 65W TDP).

Intel® Graphics Media Accelerator 950

The Intel GMA 950 is an intelligent and responsive 256-bit graphics engine built into the chipset that is on the mainboard. It supports 224 MB maximum shared memory and 2048x1536 at 75 Hz maximum resolution.

Dual View Technology with DVI and VGA

Dual View technology offers multiple display support on up to two separate monitors. This improves the capabilities and productivity of the user by allowing them to spread multiple windows over two monitors and view them simultaneously.

DVI output

The Digital Visual Interface (DVI) allows the signal to stay the way it was intended to be all the way to the end display and this results in a far more compelling image that is razor sharp and wonderfully vibrant.

Gigabit LAN Network

Today's media-rich communications across the Internet and within organizations are creating new demands on clients in Local Area Networks. For that reason Shuttle introduces the Gigabit LAN performance even in the business and entry level segment of their Mini-PC line.

High speed USB 2.0 interface

The back panel provides 4 USB 2.0 ports which support up to 480 Mb/s data transfer rate for data intensive external devices.

SATA 3Gb/s storage interface

High speed storage improves transfer rate for improved data access. The SATA II specification doubles bus bandwidth from 1.5Gb/s to 3Gb/s.

MyKover: customizable front panel design

The enjoyable MyKover styles your home with more fun, just 1-minute, 2-clicks and 3-steps by inserting the stunning pictures behind the crystal panel.

Supports Windows Vista Premium

Breathtaking Windows Aero™ 3D visual interface and a host of groundbreaking new features, Windows® Vista™ Premium promises to deliver a streamlined computing experience designed to fundamentally change how users view, find and organize their digital information.

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Shuttle K-Series Barebone K48 Specifications

Chassis	Black K-type chassis with aluminum cover and acrylic front plate Temperature controlled 92x92x25mm rear chassis fan Storage bays: 2x 3.5" internal, 1x 5.25" external Dimensions: 29.5 x 20 x 18.5 cm (LWH) Weight: 4.0 kg net / 5.1 kg gross
Mainboard	Mainboard FM20 Proprietary mainboard design for K48 Chipset: Intel 945GC + ICH7
Power Supply	100 Watt Flex ATX power supply unit Input voltage range: 100~240V AC, 47~63 Hz Active PFC (Power Factor Correction) EMI Certified: FCC, CE, BSMI Safety Certified: UL, TÜV, CB Power plug region specific 40 mm cooling fan sensor control
Processor Support	Socket 775 supports Single and Dual Core processors from Intel Supports 533/800/1066 MHz FSB (Front Side Bus) Supports Core 2 Duo E7xxx/E4xxx, Pentium Dual-Core 2xxx and Celeron D 4xx series Supports up to 65W TDP Please refer the support list for detailed processor support information. http://global.shuttle.com/support_list.jsp
Processor Cooling	Processor cooling fan is not included Please purchase an Intel boxed processor.. The mainboard supports temperature-controlled RPM fan speed by the BIOS.
Memory Support	2x 240 pin slots, supports Dual Channel supports DDR2-533/667 SDRAM memory Supports up to a total size of 2 GB, max. 1 GB per DIMM
Expansion Slots	No expansion slots
Integrated Graphics	Intel Graphics Media Accelerator 950 (GMA950) with PCI-E x1 improved bandwidth, features 333MHz graphics core DX8/DX9 support and enhanced 3D performance Dynamic Video Memory Technology (DVMT) 3.0 Shared Memory max. 224MB Video connectors: Digital DVI and analog Sub-D Supports Dual Monitor operation.

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6-channel Audio	5.1-channel audio Audio Realtek® ALC 662 6-channel High-Definition Audio Three analog audio connectors (3.5mm) at the Back-Panel: 1) Front Line out (head phone) 2) Rear Surround line-out (shared with microphone input) 3) Center line-out (shared with Line in)
LAN Controller	Gigabit Ethernet network controller (Marvell 8056) Supports 10/100/1000 MBit/s operation RJ45 back panel connector Supports Wake-on-LAN function and PXE (Preboot Execution Environment)
Drive connectors	2x Serial-ATA II, 3 Gbit/s (300 MB/s) bandwidth 1x IDE ATA 100
Front panel	Power button Power indicator (LED) HDD indicator (LED)
Back panel connectors	DVI Video (digital) D-sub Video (analog) 4x USB 2.0 RJ45 LAN connector PS/2 keyboard connector PS/2 mouse connector Serial COM port Audio Front Line out (head phone) Auido Rear Surround line-out (shared with microphone input) Audio Center line-out (shared with Line in) optional Wireless LAN module (PN20)
Other connectors	2x fan connectors (4 pins) 4x USB 2.0 (two 2x5 pin onboard headers)
Accessories	System installation Guide 1x SATA cable 1x IDE cable 1x Power cord Driver CD-ROM (32/64 bit) Screws

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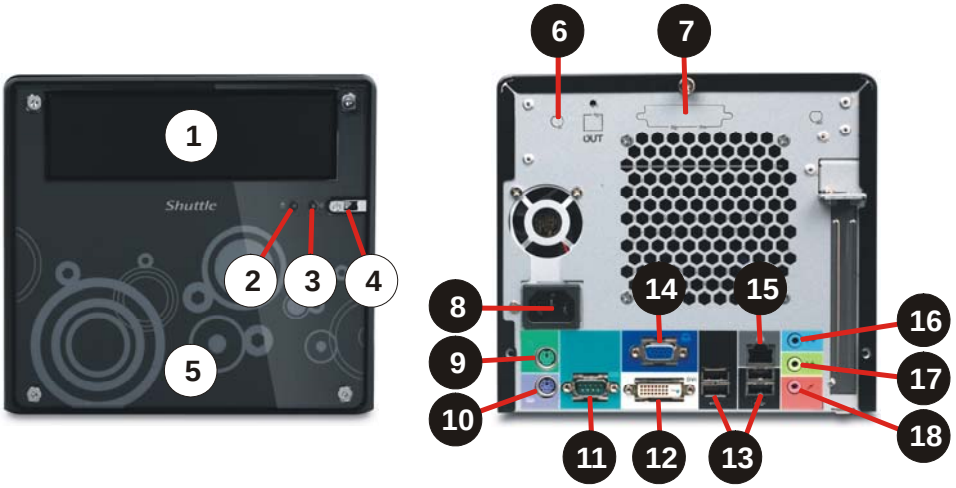
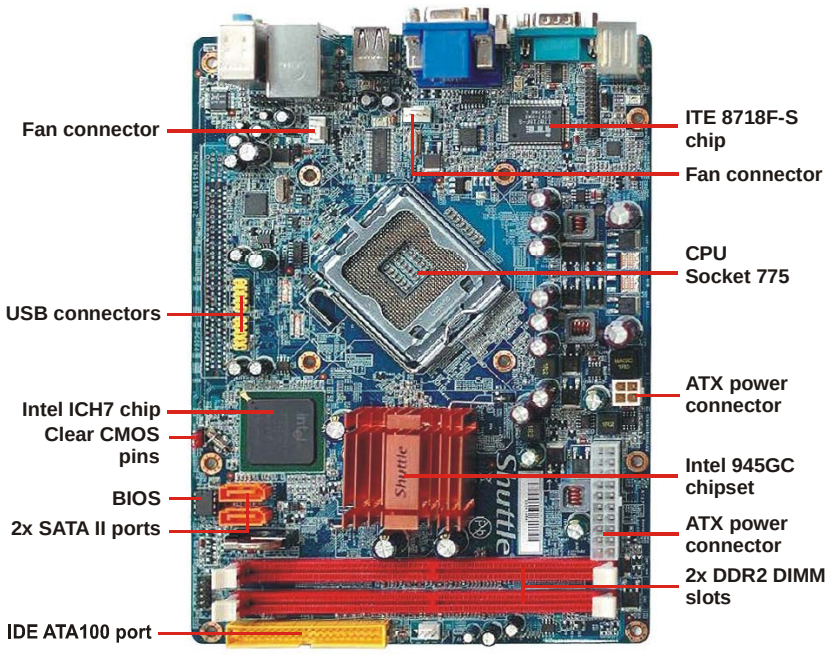
Connectors and Components

Front and Back view



1	5.25” bay for optical drive	6	Optional WLAN	*13*	4x USB 2.0 ports
2	Hard disk LED	7	Optional parallel port	*14*	VGA video out
3	Power LED	8	AC power socket	*15*	Gigabit LAN (RJ45)
4	Power button	9	PS/2 mouse port	*16*	Audio line-in
5	MyKover – changeable front design	10	PS/2 keyboard port	*17*	Audio line-out
		11	Serial port	*18*	Microphone input
		12	DVI video out		

Mainboard



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MyKover – Customize Your Front Panel

Unfasten the front panel by removing the four screws. Remove both the transparent glass and the image.

Insert the new image and cover back the transparent glass on top.

Align and correspond the transparent glass and new image to screw holes on the front of the machine. Carefully screw back the four screws.

Congratuation, you have your customized image now.

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